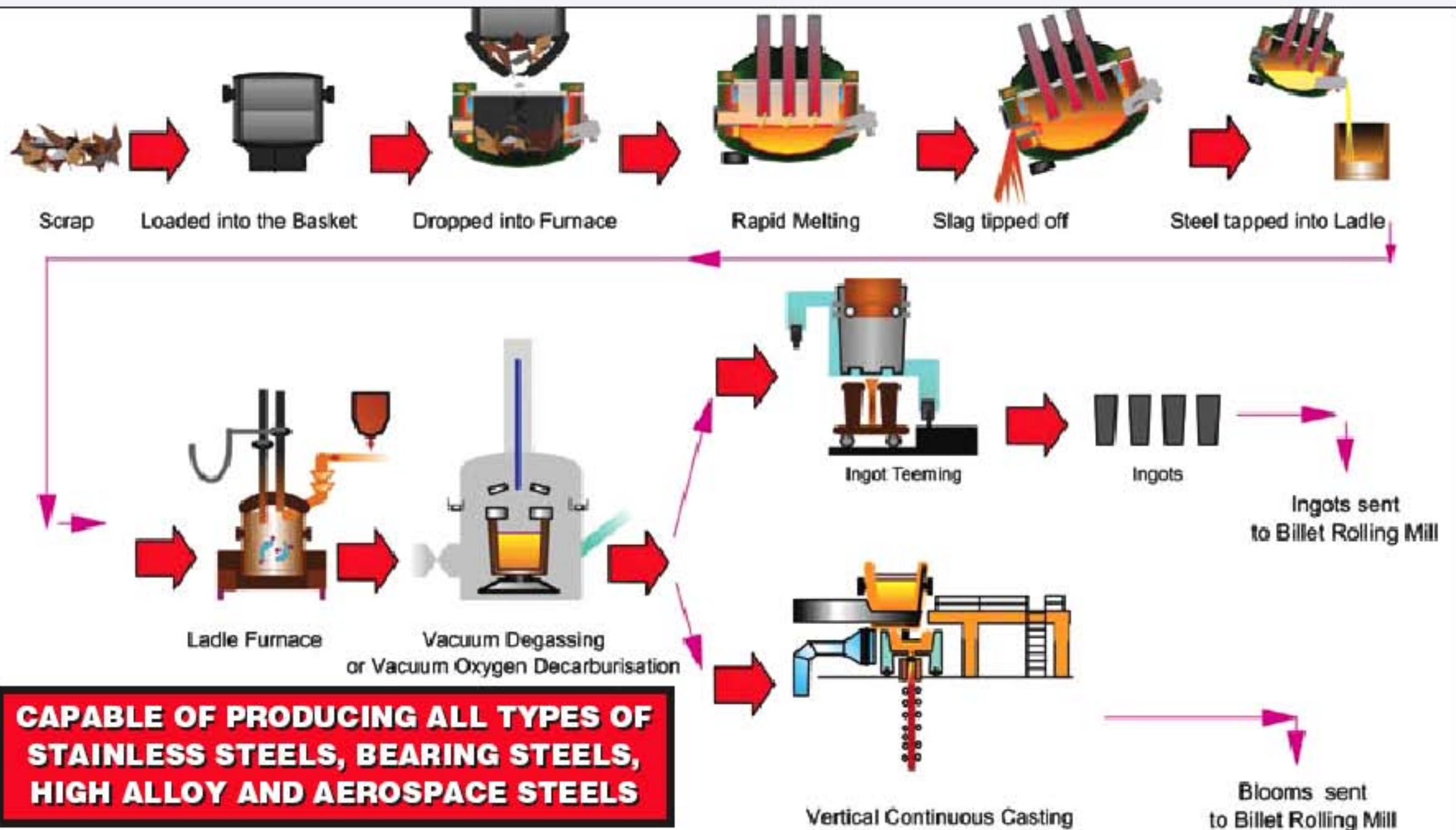
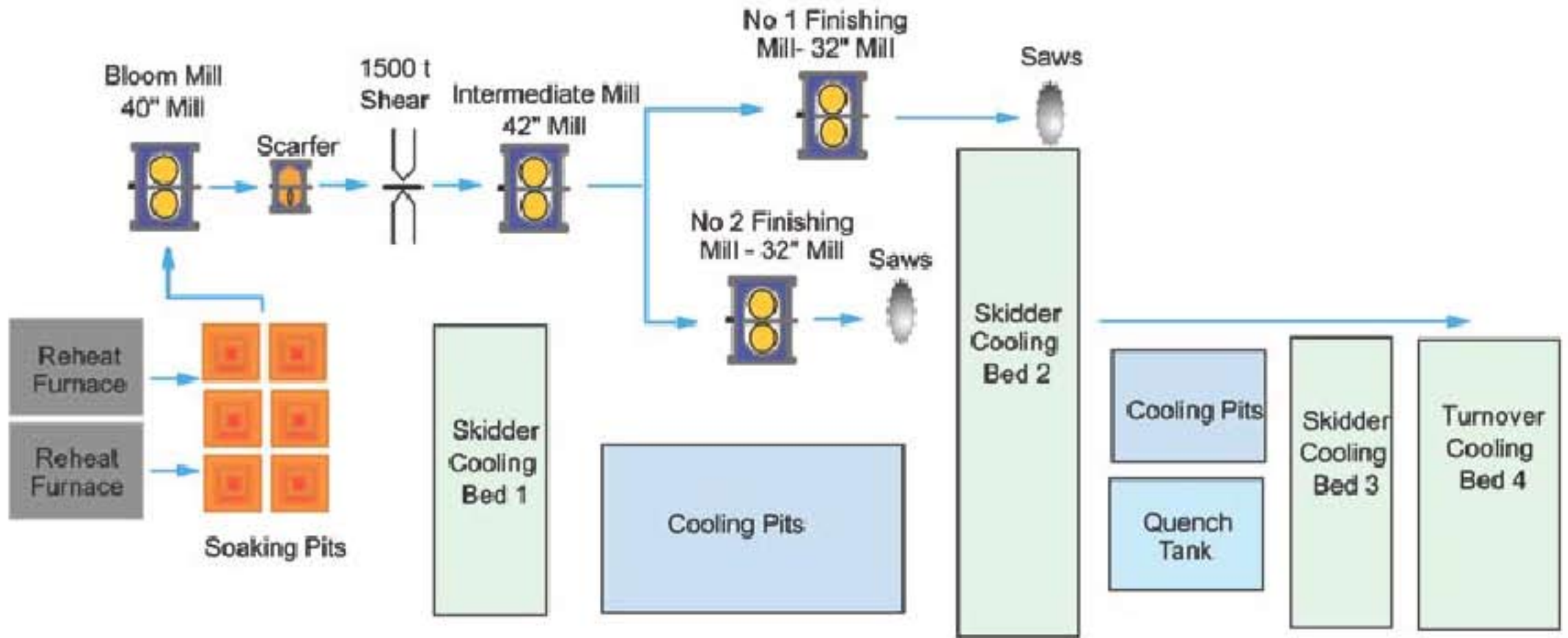


MELTSHOP PROCESS ROUTE



BILLET MILL PROCESS ROUTE



MELTSHOP - ELECTRIC ARC FURNACE



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MELTSHOP - ELECTRIC ARC FURNACE

FUCHS / DEMAG ELECTRIC ARC FURNACE

Shell Diameter (Meters)	6.75
Water Cooled Panels	Yes
Water Cooled Roof	Yes
Nominal Tap Weight (Tonnes)	145
Transformer Rating	65/54
Oxyfuel Burners	Oxygen (4 x 2.5MW) RCB (2 x 2.5MW)
Post Combustion	Oxygen Injectors (2)
Secondary Voltage (V)	931
Secondary Current (kA)	57
Electrode Diameter (mm)	600
Fume Extraction	Close coupled water cooled duct, Bag House filtration
Slag Separation	Taphole valve (Sliding Gate)
Oxygen Injection (m ³ /hr)	1 x Consumable Side Lance (1000 - 2500)
Carbon Injection (kg/min)	35 - 70 (1 x Side Lance & 1 x Injector)
Lime Injection (kg/min)	350 - Roof Mounted Nozzles (2)



MELTSHOP - LADLE FURNACE



MELTSHOP - LADLE FURNACE



Type **ARC HEATING LADLE UNIT WITH STIRRING**

Ladle Capacity (Tonnes)	145	Sampling	Automatic Dipper
Nominal Transformer Rating (MVA)	35	Ladle Life	36 Heats, 5220 Tonnes
Secondary Voltage (V)	200 - 420	Plug Life (minutes)	1200
Secondary Current (kA)	32	Heatshield Life	Water Colled Roof
Electrode Diameter (mm)	350	Mean Power Consumption (kWh/tls)	70
Pitch Circle Diameter (mm)	900	Mean Electrode Consumption (kg/tls)	0.6
Stirring	Argon through 2 x Bottom Plugs	Mean Argon Consumption (m ³ /tls)	0.05
Nominal Heating Rate	Up to 4.5 deg C/min	Mean Residence Time (minutes)	60

BILLET MILL - 40" PRIMARY MILL



BILLET MILL - 40" PRIMARY MILL



40" Primary Mill

Sizes Rolled:

Blooms	>295mm
Slabs	Width 860 – 1053mm
	Thickness 100 – 250mm

40" Primary Mill Motor

Power:	3730kw
Speed:	40 60 RPM
Voltage:	2500 – 2530V
Current:	1065A

MELTSHOP - ANCILLARY EQUIPMENT



BILLET MILL - ANCILLARY EQUIPMENT

